

Enhancements to IUCV Processing in CMS SU

IUCV processing in CMS SU is described in Chapter 5 of the *Simultaneous Usage Reference Manual for CMS* (DN1000015.0797). Several enhancements have been made to IUCV processing in CMS SU.

Increased Number of MFCBs

The maximum number of MFCBs (available message files) has been increased from 2048 to 32,768. To take advantage of the increased limit, increase the MFCBS value in the IUCVMAIN CONFIG file from 2048, up to 32768.

The FOCUS Database Server (formerly known as the sink machine) will no longerabend when the number of MFCBs has been exhausted. The server will issue a console error message and the user will receive a REJECT message.

A new server command enables you to query the number of MFCBs in use:

```
? MFCBS
```

Issuing Server Commands From a PIPE

A new solution is available to replace the REXX command *Address* 'FOCFIFO', which specifies a server command and adds its results to the top of the CMS console stack.

VM does not allow the exec writer to access server responses using the following syntax:

PIPE *address_environment* ? USERS > STEM USERS. Therefore, a NUCLEUS EXTENSION has been created that executes in the CMS command environment and can be executed from a PIPE. This solution invokes the full power of pipes to capture the resulting command output. The syntax is:

```
PIPE CMS CONCMD server_command > STEM USERS.
```

where:

CONCMD

Is short for CONsole CoMmanD.

server_command

Is a valid server command.

STEM USERS.

Places the command results in the REXX stem USERS.

For example, the following command captures the output of the ? USERS command into the REXX stem USERS.

```
PIPE CMS CONCMD ? USERS > STEM USERS.
```

Enhanced STOP Processing

The STOP now stops the server after the final connection has been severed. The original command failed to stop after the last user severed the path to the server.

MAXCONN Warning Message Indicates IUCV ALLOW Not Enabled

Because of limitations in VM, the server cannot query the IUCV ALLOW or IUCV ANY options in the directory. However, if the maximum number of IUCV paths (MAXCONN value) is 256 or higher, these options are probably enabled. If the setting is less than 256, a warning message will be issued to the server console, and the server will continue to startup.

Although the MAXCONN value can be as high as 64K, memory for the connections is reserved at IPL time, so it is a good idea to determine the number of connections you are likely to need before setting this value.

Note that IUCV requires the following options in the user directory *on the server*:

```
MACHINE XC
IUCV ALLOW
IUCV ANY
OPTION MAXCONN 256 APPLMON
```

Enhanced FULL DUMP Processing

Updates to full dump processing were made. An abend will trigger a FULL DUMP if FULLDUMP is defined in the configuration file or is passed as a command line option. Command line options are specified in the FOCUSU EXEC command:

```
EXEC FOCUSU (option1 option2 ...)
```

Consider the following example:

```
EXEC FOCUSU (MSG NOPASSWD ECHO
```

This command contains the following options:

- MSG, which indicates that the server will accept MSG commands.
- NOPASSWD, which forces the authorization of MSG commands from the GLOBALV SELECT FOCIUCV list.
- ECHO, which activates tracing of server activity.

Command line options override conflicting options that may be defined in IUVCMAIN CONFIG.

Special Message Queuing

A STACK has been added for special message (CP MSG command) queuing. This allows you to issue multiple CP MSG commands without waiting in between. The syntax for these commands is:

```
CP MSG server_id {*|password} CMD command
```

where:

`server_id`

Is the VM user ID of the server.

*

Indicates that the command was issued from a VM ID defined as an administrator.

`password`

Is the password used to start the server.

`command`

Is any server command.

For example:

```
CP MSG SERVER1 * ? CALLS
```

The ? CALLS command was added in a prior update. It was added because the console does not capture CP MSG responses when a service machine is disconnected. The ? CALLS query returns the number of times each SU command was executed. This command is related to: ? SU *vmid*, ? SERVER *vmid*, and ? CALLS *vmid*.